AMENDMENTS TO THE CLAIMS

1 1. (Currently Amended) A method comprising:

2 receiving a database statement that

3 ~~makes a change~~ specifies a DML operation that ~~causes a loss of~~ modifies

4 data in one or more columns in a database, and

5 contains a clause that specifies an aggregate operation to be performed on

6 a plurality of values associated with the ~~change~~ data; and

7 in response to receiving the database statement,

8 performing the DML operation on the one or more columns in the

9 database,

10 performing the aggregate operation on the plurality of values, and

11 returning as a result of the database statement a result of the aggregate

12 operation.

1 2. (Currently Amended) The method of claim 1, wherein the performing of the

2 aggregate operation is performed while performing the ~~change~~ DML operation.

1 3. (Currently Amended) The method of claim 1, wherein the [[loss of]] modified

2 data includes values of the data before the ~~change~~ DML operation.

1 4. (Currently Amended) The method of claim 1, wherein the [[loss of]] modified

2 data includes values of the data after the ~~change~~ DML operation.

1 5. (Currently Amended) The method of claim 1, wherein the ~~change~~ DML operation

2 is an update of the data.

1 6. (Currently Amended) The method of claim 1, wherein the ~~change~~ DML operation

2 is a deletion of the data.

1 7. (original) The method of claim 1, wherein the receiving is performed by an SQL

2 engine.

1 8. (original) The method of claim 1, wherein results of the aggregate operation are
2   passed from an SQL engine to a server side stub without passing the data in its
3   entirety.

1 9. (original) The method of claim 8, wherein results of the aggregate operation are
2   passed from an SQL engine to a client interface without passing the data in its
3   entirety.

1 10. (original) The method of claim 1, where the database statement is sent from a
2   client interface.

1 11. (original) The method of claim 1, wherein the database statement contains
2   multiple aggregate operations.

1 12. (original) The method of claim 11, wherein performing includes:
2   parsing the database statement;
3   establishing a list of operator trees, each operator tree corresponding to a different
4   aggregate function; and
5   establishing an aggregate function list including structures pointing to work
6   spaces for performing the aggregate functions.

1 13. (original) The method of claim 1, wherein:
2   the receiving of the database statement is performed via a call interface;
3   the performing of the aggregate operation generates an aggregate value; and
4   the method further includes passing the aggregate value through the call interface
5   without passing the plurality of values.

1 14. (Currently Amended) [[A]] The method comprising of claim 1, wherein:
2   receiving a the database statement that makes a change that causes a loss of data,
3   and further contains a return clause that indicates which old values
4   involved in said change are to be changed associated with the data; and

5   ~~in response to receiving the database statement, performing the change and~~

6   ~~returning multiple values that were involved in said change~~ <u>the step of</u>

7   <u>performing the aggregate operation on the plurality of values includes</u>

8   <u>performing the aggregate operation on the old values.</u>

1   15.   (Currently Amended) A ~~system comprising~~ computer readable medium ~~carrying~~

2   <u>storing a set of</u> instructions <u>which, when executed by one or more</u> ~~for causing a~~

3   processo<u>rs, causes the one or more processors</u> to perform a method including at

4   least:

5   receiving a database statement that

6   ~~makes a change~~ <u>specifies a DML operation</u> that ~~causes a loss of~~ <u>modifies</u>

7   data <u>in one or more columns in a database</u>, and

8   contains a clause that specifies an aggregate operation to be performed on

9   a plurality of values associated with the ~~change~~ <u>data</u>; and

10   in response to receiving the database statement,

11   <u>performing the DML operation on the one or more columns in the</u>

12   <u>database,</u>

13   performing the aggregate operation on the plurality of values, and

14   returning as a result of the database statement a result of the aggregate

15   operation.

1   16.   (Currently Amended) The ~~system~~ <u>computer-readable medium</u> of claim 15,

2   wherein the performing of the aggregate operation is performed while performing

3   the ~~change~~ <u>DML operation</u>.

1   17.   (Currently Amended) The ~~system~~ <u>computer-readable medium</u> of claim 15,

2   wherein the [[loss of]] <u>modified</u> data includes values of the data before the ~~change~~

3   <u>DML operation.</u>

1   18.   (Currently Amended) The ~~system~~ <u>computer-readable medium</u> of claim 15,

2   wherein the [[loss of]] <u>modified</u> data includes values of the data after the ~~change~~

3   <u>DML operation.</u>

1   19.   (Currently Amended) The ~~system~~ <u>computer-readable medium</u> of claim 15,

2   wherein the ~~change~~ <u>DML operation</u> is an update of the data.

1   20.   (Currently Amended) The ~~system~~ <u>computer-readable medium</u> of claim 15,

2   wherein the ~~change~~ <u>DML operation</u> is a deletion of the data.

1   21.   (Currently Amended) The ~~system~~ <u>computer-readable medium</u> of claim 15 further

2   comprising a computer that accesses the computer readable medium.

1   22.   (Currently Amended) The ~~system~~ <u>computer-readable medium</u> of claim 15,

2   wherein the clause contains multiple aggregate operations.

1   23.   (Currently Amended) The ~~system~~ <u>computer-readable medium</u> of claim 22,

2   wherein performing includes

3   parsing the database statement;

4   establishing a list of operator trees, each operator tree corresponding to a different

5   aggregate function; and

6   establishing an aggregate function list including structures pointing to work

7   spaces for performing the aggregate functions.

1   24.   (Currently Amended) The ~~system~~ <u>computer-readable medium</u> of claim 15,

2   wherein:

3   the receiving of the database statement is performed via a call interface;

4   the performing of the aggregate operation generates an aggregate value; and

5   the method further includes passing the aggregate value through the call interface

6   without passing the plurality of values.

1   25.   (Currently Amended) ~~A system comprising~~ <u>The</u> computer readable medium ~~carrying~~

2   ~~instructions for causing a processor to perform a method including at least~~ <u>of claim</u>

3   <u>15, wherein:</u>

4   ~~receiving a~~ the database statement ~~that makes a change that causes a loss of data, and~~

5   further contains a return clause that indicates ~~which~~ old values ~~involved in~~

6   ~~said change are to be changed~~ associated with the data; and

7   ~~in response to receiving the database statement, performing the change and returning~~

8   ~~multiple values that were involved in said change~~ the step of performing the

9   aggregate operation on the plurality of values includes performing the

10   aggregate operation on the old values.